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(71) Applicant (for all designated States except US):	THE ADMINISTRATORS OF THE TULANE EDUCATIONAL FUND [US/US]; 1430 Tulane Avenue, New Orleans, LA 70112 (US).	
(72) Inventor; and		
(75) Inventor/Applicant (for US only):	THOENE, Jess, G. [US/US]; 1519 Calhoun Street, New Orleans, LA 70118 (US).	
(74) Agents:	BAK, Mary, E. et al.; Howson and Howson, Spring House Corporate Center, P.O. Box 457, Spring House, PA 19477 (US).	

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(54) Title: METHODS AND COMPOSITIONS FOR TREATING CANCER

(57) Abstract: Pharmaceutical compositions and kits useful for the treatment of cancer include certain alkyl esters of cystine and certain alkyl-substituted cystamine derived esters, including, for example, cystine dimethyl ester and a di-alkyl peptidyl cystamine ester, among others. These compounds may be employed in methods of treating cancers or methods of determining sensitivity of certain cancer cells to apoptosis alone, or in combination with other chemotherapeutic, radiological or apoptotic agents.